Subject Code: RECNKB3

ELECTIVE COURSE - III b - SOFTWARE TESTING

Unit I: Software Quality

Quality Concepts - Quality Movement - Software Quality Assurance - Software Reviews - Formal Technical Reviews - Formal Approaches to SQA - Statistical Software Quality Assurance - Software Reliability - The ISO 9000 Quality Standards - The SQA Plan

Unit II: Testing Fundamentals - 1

Testing Fundamentals – Types of Testing – White box testing – Black box testing - Integration testing – System and acceptance testing.

Unit III: Testing Fundamentals - 2 & Specialized Testing

Performance testing – Regression testing - Testing of Object Oriented Systems – Usability and Accessibility testing.

Unit IV:

Test Planning, Management, Execution and Reporting

Unit V:

Software Test Automation - Test Metrics and Measurements

Text Books:

- 1. Software Engineering Concepts and Practices Roger S Pressman, TMG, Sixth Edition (For Unit I)
- 2. Software Testing (Units II, III, IV, V) Srinivasan Desikan, Gopalaswamy Ramesh Pearson Education 2006

Reference Books:

- 1. Introducing Software Testing Louis Tamres, Addison Wesley Publications, First Edition.
- 2. Software Testing, Ron Patton, SAMS Techmedia, Indian Edition 2001
- 3. Software Quality Producing Practical, Consistent Software Mordechai Ben Menachem, Gary s. Marliss, Thomson Learning, 2003.